DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO.

NTSE (E) NTSE - NOV, 2018

Medium : English **MENTAL ABILITY TEST** **Q. Booklet No. XXXXXX**

Paper - I

Candidate's Roll Number

Time allowed : 120 Minutes **Total Questions : 100** **Maxmimum Makrs : 100**

INSTRUCTION : Please check that OMR Answer Sheet No. and Question Booklet No. match with each other. If they do not match immediately replace the Question Booklet and OMR Answer Sheet. Candidate should fill the correct Question Booklet No. in OMR Answer Sheet.

Instructions to Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer sheet given, with a **HB pencil.** Read the **Instructions printed on the OMR sheet carefully before answering the questions.**

1. Please write your Hall Ticket No. very clearly (only one digit in one block) on the OMR Answer sheet as given in your admission card. Please see that no block is left unfilled and even Zeros are correctly transferred to the appropriate blocks on the OMR Answer sheet. For all the subsequent purposes, your Centre Code No. and other details shall remain the same as given on the Admission Card.
2. **Paper-I (Mental Ability)** consists of 100 questions (Q. Nos. 1 to 100).
3. All questions carry **one** mark each.
4. Since **all** questions are **compulsory**, do not try to read through the whole question paper before beginning to answer it.
5. Begin with the first question and keep trying one question after another till you finish all the questions.
6. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
7. Since the time allotted to the question paper is very limited, you should make the best use of it by not spending too much time on any question.
8. A blank page is provided for rough work at the end of question paper.
9. REMEMBER YOU HAVE TO SHADE ANSWERS ON A SEPARATE OMR ANSWER SHEET PROVIDED.
10. Answer to each question is to be indicated by SHADING the circle having the number of the correct alternative in the OMR Answer sheet from among the ones given for the corresponding question in the booklet.
11. Now turn to the next page and start answering the questions.
12. The OMR Answer sheet consists of two copies, the ORIGINAL COPY and the CANDIDATE'S COPY. Do not separate or displace them. Do not darken the bubbles in two copies of OMR Answer sheets separately.

    After the examination, you should hand over the original copy of OMR Answer sheet to the invigilator of the room and can take away the Candidate's copy of OMR Answer Sheet with them.
13. The candidate **need not return** this Question Paper booklet and can take it after completion of the examination. No candidate should leave the examination hall before the end of the examination.

PAPER – I
MENTAL ABILITY TEST
(Q. Nos. 1 to 100)
Max. Marks : 100

Note : SHADE the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Booklet. For shading the circles, use a **HB pencil**.

Direction: In Question nos. 1 to 10:
In the number series given below, one number is missing. Each series is followed by four alternatives (1), (2), (3) and (4). One of them is the right answer. Identify and indicate it as per the "instructions".

1. 4, 9, 19, 39, 79, _____
(1) 169 **(2)** 159
(3) 119 **(4)** 139

Question Id : 1

2. 11, 23, 48, 99, _____, 409
(1) 200 **(2)** 202
(3) 201 **(4)** 205

Question Id : 2

3. 0, 7, 26, 63, 124, 215, _____
(1) 305 **(2)** 295
(3) 342 **(4)** 323

Question Id : 3

4. 7, 10, 8, 11, 9, 12, _____
(1) 13 **(2)** 16
(3) 14 **(4)** 10

Question Id : 4

5. 0, 3, 8, 15, 24, _____
(1) 39 **(2)** 32
(3) 27 **(4)** 35

Question Id : 5

6. 10, 26, 74, 218, 650, _____
(1) 1942 **(2)** 1950
(3) 1946 **(4)** 1956

Question Id : 6

7. 8, 24, 12, 36, 18, 54, _____
(1) 27 **(2)** 108
(3) 68 **(4)** 72

Question Id : 7

8. 77, 91, 105, 119, 133, 161, _____
(1) 175 **(2)** 189
(3) 203 **(4)** 193

Question Id : 8

9. 3, 7, 6, 5, 9, 3, 12, 1, 15, _____
(1) 18 **(2)** 13
(3) −1 **(4)** −3

Question Id : 9

10. 888, 440, 216, 104, 48, _____
(1) 28 **(2)** 26
(3) 24 **(4)** 20

Question Id : 10

Direction: In Question nos. 11 to 20:
In each of the following questions, a letter series is given, in which some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.

11. A _ B _ BA _ AB _ BA
(1) BABB **(2)** ABAA
(3) ABAB **(4)** ABBA

Question Id : 11

12. ABA _ BACA _ BA _ BACAABAC _ ACA
(1) ABCB **(2)** CABC
(3) CCAB **(4)** CACB

Question Id : 12

13. BAA _ AAB _ A _ A _ BAA _
(1) BABAB **(2)** ABAAB
(3) ABABA **(4)** AABBA

Question Id : 13

14. A _ CC _ AAB _ CB _
(1) ABCA **(2)** BCAB
(3) AABC **(4)** BBCA

Question Id : 14

15. A _ BBC _ AAB _ CCA _ BBCC
(1) BACB **(2)** ACBA
(3) ABBA **(4)** CABA

Question Id : 15

16. ABCA _ BCAAB _ CA _ BBC _ A
(1) CCAA **(2)** BBAA
(3) ABAC **(4)** ABBA

Question Id : 16

17. A _ CDAAB _ CC _ DAA _ BBB _ CCDDD
(1) BDBDA **(2)** BDDCA
(3) DBBCA **(4)** BBDAC

Question Id : 17

18. AA _ BBB _ CCAAAB _ BC _ C
(1) BBCC **(2)** BCCC
(3) CCBB **(4)** ACBC

Question Id : 18

19. A _ CA _ BC _ BCC _ BCA

(1) BBAA **(2)** BBAB

(3) AABB **(4)** BABA

Question Id : 19

20. A _ CBABC _ CB _ AB _ C

(1) CABA **(2)** ACAB

(3) BACA **(4)** ABAB

Question Id : 20

Direction: In Question nos. 21 to 30:
Questions have become wrong due to wrong order of signs. Choose the correct order of signs from the four alternatives given under each question, so that the equation becomes right. Write it in your answer sheet against the corresponding question number.

21. 14 ÷ 2 + 16 = 12

(1) × = + **(2)** × + =

(3) + = − **(4)** ÷ − =

Question Id : 21

22. 3 + 5 − 2 = 13

(1) − = × **(2)** ÷ − =

(3) + = − **(4)** × = +

Question Id : 22

23. 11 × 7 ÷ 13 = 5

(1) − = + **(2)** + = +

(3) ÷ + = **(4)** × = −

Question Id : 23

24. 2 − 7 ÷ 5 = 19

(1) + = + **(2)** ÷ = −

(3) × + = **(4)** − + =

Question Id : 24

25. 2 = 11 ÷ 3 × 19

(1) × = + **(2)** = + −

(3) − = × **(4)** ÷ = ÷

Question Id : 25

26. 7 = 5 × 16 − 19

(1) + − = **(2)** − = +

(3) ÷ = + **(4)** × = +

Question Id : 26

27. 11 × 7 − 23 = 5

(1) + = − **(2)** − = ×

(3) = + − **(4)** ÷ = −

Question Id : 27

28. 5 − 6 = 11 ÷ 19

(1) − ÷ = **(2)** + ÷ =

(3) + − = **(4)** × = +

Question Id : 28

29. 12 = 3 ÷ 19 + 4

(1) ÷ = − **(2)** × = −

(3) + = − **(4)** × ÷ =

Question Id : 29

30. 39 − 24 − 9 = 7

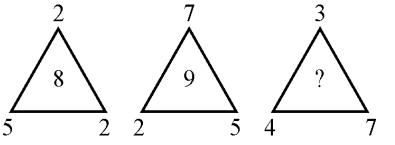
(1) + = + **(2)** + = ×

(3) = + − **(4)** = + ÷

Question Id : 30

Direction: In Question nos. 31 to 40:
In these questions, numbers are placed in the figures on the basis of some rules. One place is vacant, which is indicated as "?". Find out the correct alternatives to replace the 'question mark (?)'.

31.

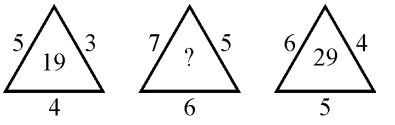


(1) 5 **(2)** 6

(3) 7 **(4)** 8

Question Id : 31

32.

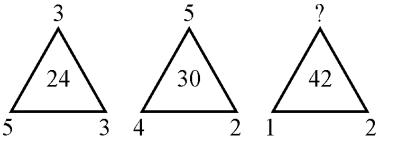


(1) 25 **(2)** 37

(3) 41 **(4)** 47

Question Id : 32

33.

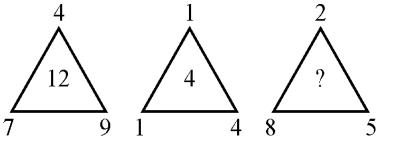


(1) 13 **(2)** 14

(3) 15 **(4)** 16

Question Id : 33

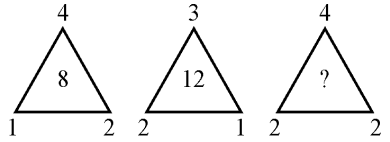
34.



(1) 5 **(2)** 9

(3) 8 **(4)** 11

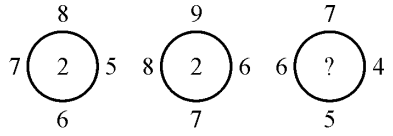
Question Id : 34

35. 

(1) 26 **(2)** 28

(3) 30 **(4)** 32

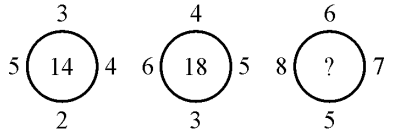
Question Id : 35

36. 

(1) 8 **(2)** 6

(3) 3 **(4)** 2

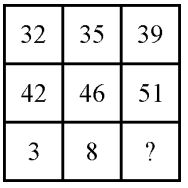
Question Id : 36

37. 

(1) 24 **(2)** 26

(3) 28 **(4)** 22

Question Id : 37

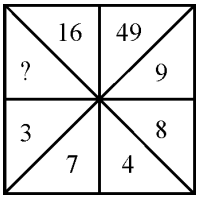
38. 

32	35	39
42	46	51
3	8	?

(1) 11 **(2)** 90

(3) 60 **(4)** 14

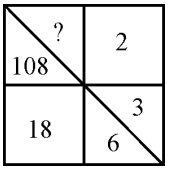
Question Id : 38

39. 

(1) 56 **(2)** 49

(3) 64 **(4)** 96

Question Id : 39

40. 

(1) 1 **(2)** 36

(3) 216 **(4)** 1944

Question Id : 40

Direction: In Question nos. 41 to 45:

Some letters are given in Column I and some digits are given in Column II. Each digit of Column II represents any letter of Column I. Study the columns and write the alternative letter after choosing the correct alternative against the corresponding question.

Column – I	Column – II
ABLMS	90418
QRLBA	63109
LRNPQ	37261
MSPTQ	87354
RABLS	04961
PLQST	51437
PTQAB	79350
ATRNP	62705
QPNAR	62703
TSLBA	49150

41. The code for M is _____.

(1) 0 **(2)** 8

(3) 1 **(4)** 6

Question Id : 41

42. The code for Q is _____.

(1) 3 **(2)** 4

(3) 5 **(4)** 7

Question Id : 42

43. The code for B is _____.

(1) 1 **(2)** 6

(3) 4 **(4)** 9

Question Id : 43

44. The code for P is _____.

(1) 9 **(2)** 4

(3) 7 **(4)** 3

Question Id : 44

45. The code for S is _____.

(1) 9 **(2)** 2

(3) 3 **(4)** 4

Question Id : 45

Direction: In Question nos. 46 to 50:

Some letters are given in Column I and some digits are given in Column II. Each digit of Column II represents any letter of Column I. Study the columns and write the alternative letter after choosing the correct alternative against the corresponding question.

Column – I	Column – II
GCUHV	56372
CKXJD	95084
UDVGH	37862
DYKVX	18394
HXGJY	06291
CGUDV	25738
HGKDY	14628
UDCKG	42587
KYDXC	19485
GXHJD	62980

46. The code for D is _____.
(1) 0 **(2)** 7
(3) 3 **(4)** 8
Question Id : 46

47. The code for C is _____.
(1) 6 **(2)** 5
(3) 3 **(4)** 2
Question Id : 47

48. The code for G is _____.
(1) 2 **(2)** 4
(3) 6 **(4)** 8
Question Id : 48

49. The code for J is _____.
(1) 4 **(2)** 3
(3) 2 **(4)** 0
Question Id : 49

50. The code for Y is _____.
(1) 8 **(2)** 7
(3) 1 **(4)** 3
Question Id : 50

Direction: In Question nos. 51 to 55:

Read the following and answer the questions given below :

There are six persons in the family of Mr. Murty

(i)They are A, B, C, D, E and F.

(ii)There are two married couples.

(iii)B is an engineer and the father of E.

(iv)F is the paternal grandfather of C and is a doctor.

(v)D is the paternal grandmother of E and is a housewife.

(vi)There is one engineer, one doctor, one teacher, one housewife and two students in the family.

51. Who is the sister of E ?
(1) C **(2)** D
(3) A **(4)** Data inadequate
Question Id : 51

52. Who among the following members are the males ?
(1) F and D **(2)** B, F and A
(3) B and F **(4)** B, F and D
Question Id : 52

53. Who is the husband of A ?
(1) C **(2)** F
(3) B **(4)** E
Question Id : 53

54. What is A's profession ?
(1) Student **(2)** Teacher
(3) Housewife or teacher
(4) Housewife
Question Id : 54

55. Which of the following are the two married couples ?
(1) FD and BE **(2)** FD and CA
(3) FD and BA **(4)** ED and CF
Question Id : 55

Direction: In Question nos. 56 to 60:
Read the following information carefully and answer the questions that follow :
There are six cities.
(i)They are A, B, C, D, E and F.
(ii)A is a historical place and not a hill station.
(iii)B and E are not historical places.
(iv)D is not a twin city.
(v)A and B are not alike.
(vi)D is not a historical city.

56. Which two cities are twin cities ?
(1) C and E **(2)** B and E
(3) E and A **(4)** B and F
Question Id : 56

57. Which two cities are historical places ?
(1) A and D **(2)** A and C
(3) E and D **(4)** D and F
Question Id : 57

58. Which two cities are hill stations ?
(1) A and D **(2)** A and F
(3) E and D **(4)** A and E
Question Id : 58

59. Which city is a hill station and a twin city but not a historical place ?
(1) A **(2)** B
(3) D **(4)** E
Question Id : 59

60. Which two cities are neither historical places nor twin cities ?
(1) A and B **(2)** B and E
(3) B and D **(4)** A and F
Question Id : 60

Direction: In Question nos. 61 to 70:
There are four terms in each question. The term right to symbol : : have some relationship as the term of the left to the symbol : : and out of the four, one term is missing, which is among one of the given four alternatives. Find the correct alternatives.

61. AFK : BGL : : _____ : EJO
(1) SXZ **(2)** DIN
(3) PUZ **(4)** DHL
Question Id : 61

62. AZY : EXW : : IVU : _____
(1) OST **(2)** TSO
(3) SOT **(4)** OTS
Question Id : 62

63. AEZ : EIY : : IOX : _____
(1) UYZ **(2)** AEX
(3) EIX **(4)** OUW
Question Id : 63

64. AJT : BKU : : _____ : DMW
(1) ENO **(2)** CVL
(3) EHF **(4)** CLV
Question Id : 64

65. Stars : Astronomy : : _____ : History
(1) Battles **(2)** Eclipse
(3) Horse **(4)** Autumn
Question Id : 65

66. Rook : Chess : : _____ : Badminton
(1) Grass **(2)** Tennis
(3) Shuttlecock **(4)** Swing
Question Id : 66

67. _____ : Play : : Sing : Anthem
(1) Act **(2)** Scene
(3) Theater **(4)** Field
Question Id : 67

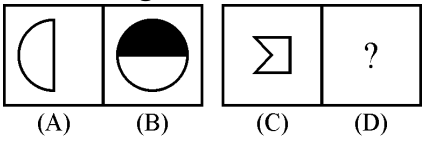
68. Cytology : _____ : : Geology : Rocks
(1) Cyclones **(2)** Psychology
(3) Pharmacology **(4)** Cells
Question Id : 68

69. _____ : Wrist : : Belt : Waist
(1) Arm **(2)** Hand
(3) Bend **(4)** Bracelet
Question Id : 69

70. Ruby : Red : : Sapphire : _____
(1) Blue **(2)** White
(3) Green **(4)** Black
Question Id : 70

Direction: In Question nos. 71 to 80:
The following questions consists of two sets of figures. Figures A, B, C and D constitute the problem set while figures 1, 2, 3 and 4 constitute the answer set. A Definite relationship exists between figures A and B. You are required to establish a similar relationship between figures C and D by choosing a suitable figure D from the answer set.

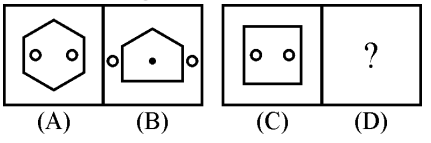
71. Problem Figures :



(1)
(2)
(3)
(4)

Question Id : 71

72. Problem Figures :



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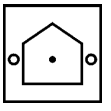
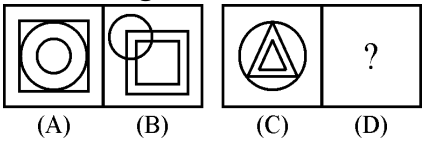
(2) 
(3)
(4)

Question Id : 72

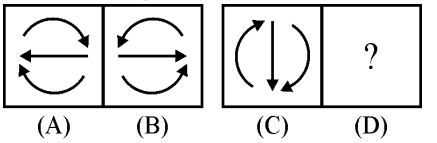
73. Problem Figures :

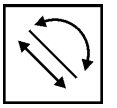
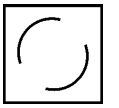
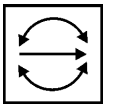
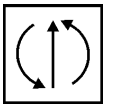


(1)
(2)
(3)
(4)

Question Id : 73

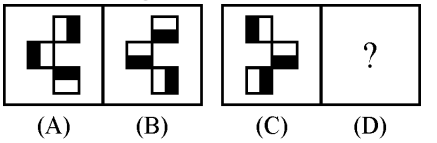
74. Problem Figures :

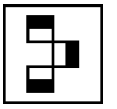
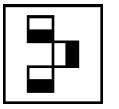
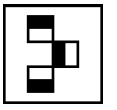
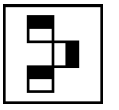


(1) 
(2) 
(3) 
(4) 

Question Id : 74

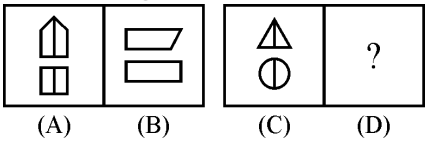
75. Problem Figures :

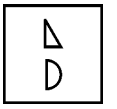
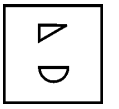
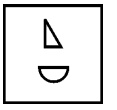
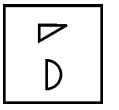


(1) 
(2) 
(3) 
(4) 

Question Id : 75

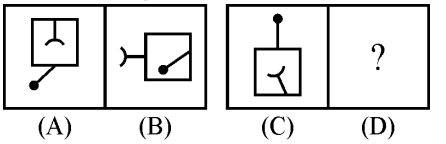
76. Problem Figures :

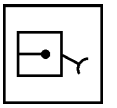
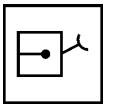
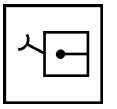
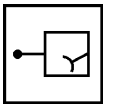


(1) 
(2) 
(3) 
(4) 

Question Id : 76

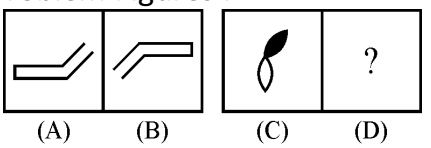
77. Problem Figures :



(1) 
(2) 
(3) 
(4) 

Question Id : 77

78. Problem Figures :



(1)

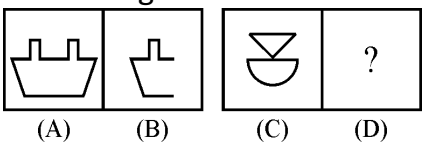
(2)

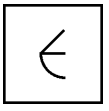
(3)

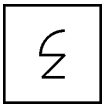
(4)

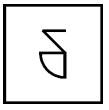
Question Id : 78

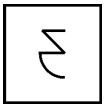
79. Problem Figures :



(1) 

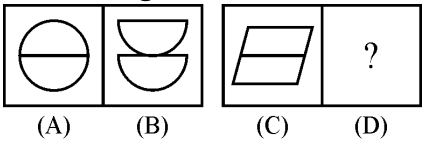
(2) 

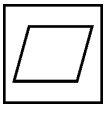
(3) 

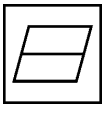
(4) 

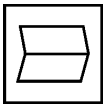
Question Id : 79

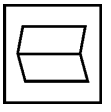
80. Problem Figures :



(1) 

(2) 

(3) 

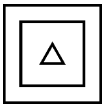
(4) 

Question Id : 80

Direction: In Question nos. 81 to 90:
Out of the four figures (1), (2), (3), (4) given in each question, three are similar in a certain way. Choose the figure which is different from the other figures.

81. .

(1)

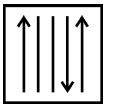
(2) 

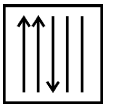
(3)

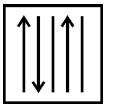
(4)

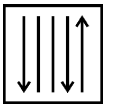
Question Id : 81

82. .

(1) 

(2) 

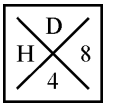
(3) 

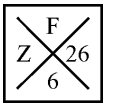
(4) 

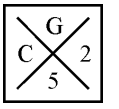
Question Id : 82

83. .

(1)

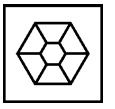
(2) 

(3) 

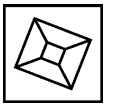
(4) 

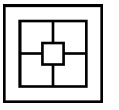
Question Id : 83

84. .

(1) 

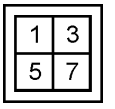
(2)

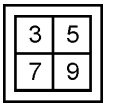
(3) 

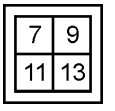
(4) 

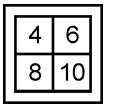
Question Id : 84

85. .

(1) 

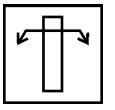
(2) 

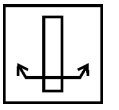
(3) 

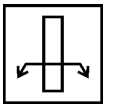
(4) 

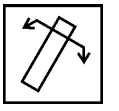
Question Id : 85

86. .

(1) 

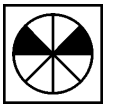
(2) 

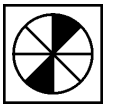
(3) 

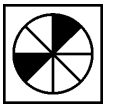
(4) 

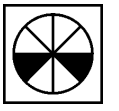
Question Id : 86

87. .

(1) 

(2) 

(3) 

(4) 

Question Id : 87

88. .

(1)

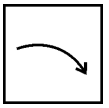
(2)

(3)

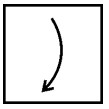
(4)

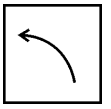
Question Id : 88

89. .

(1) 

(2)

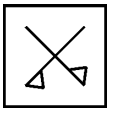
(3) 

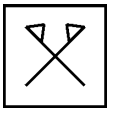
(4) 

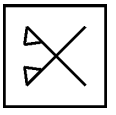
Question Id : 89

90. .

(1)

(2) 

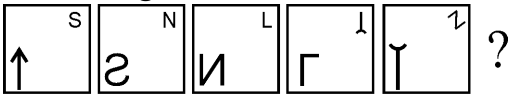
(3) 

(4) 

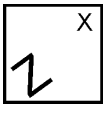
Question Id : 90

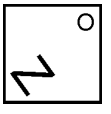
Direction: In Question nos. 91 to 100:
Each of the following questions consists of the five figures marked A, B, C, D and E called the problem figures followed by four alternatives marked 1, 2, 3 and 4 called the answer figures. Select a figure which will continue the same series established by the five problem figures :

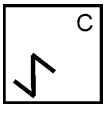
91. Problem Figures :



(A) (B) (C) (D) (E)

(1) 

(2) 

(3) 

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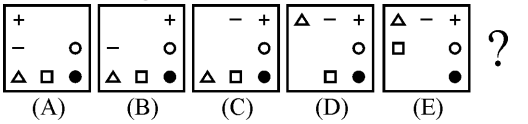
Question Id : 91

92. Problem Figures :



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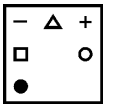
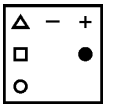
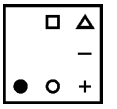
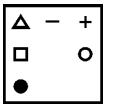
(1) 

(2) 

(3) 

(4) 

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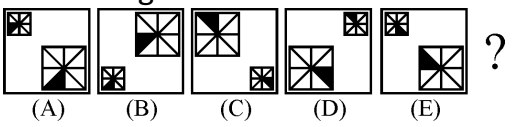
93. Problem Figures :



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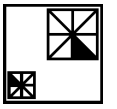
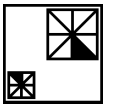
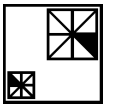
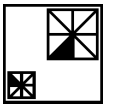
(1) 

(2) 

(3) 

(4) 

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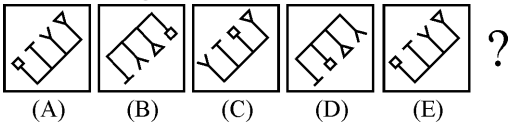
94. Problem Figures :



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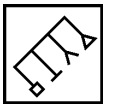
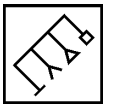
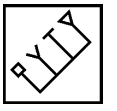
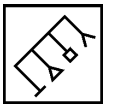
(1) 

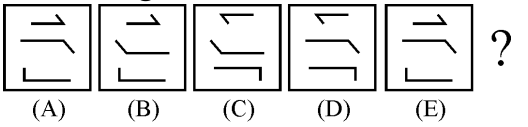
(2) 

(3) 

(4) 

Question Id : 94

95. Problem Figures :



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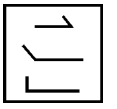
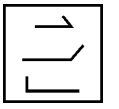
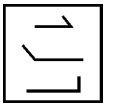
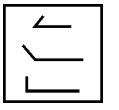
(1) 

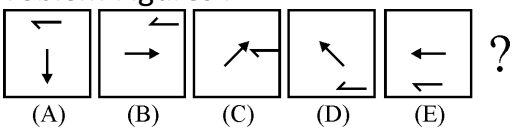
(2) 

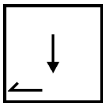
(3) 

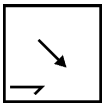
(4) 

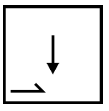
Question Id : 95

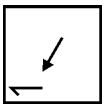
96. Problem Figures :



(1) 

(2) 

(3) 

(4) 

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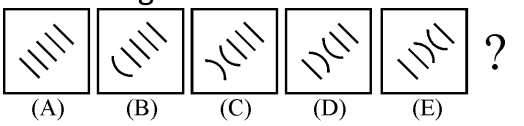
97. Problem Figures :



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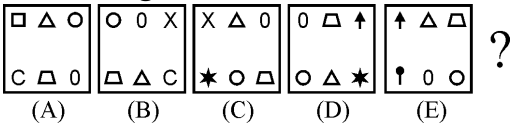
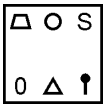
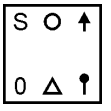
98. Problem Figures :



(1) 

(2) 

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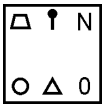
(4) 

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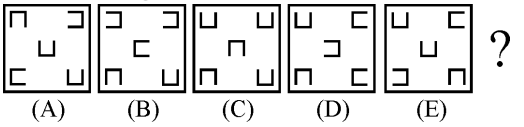
99. Problem Figures :



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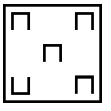
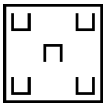
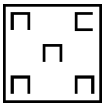
(2) 

(3) 

(4) 

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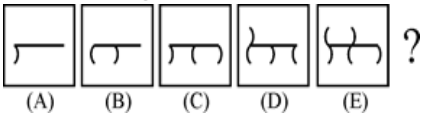
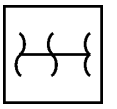
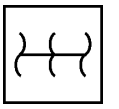
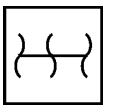
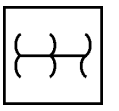
100. Problem Figures :



(1) 

(2) 

(3) 

(4) 

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